

Appln. No.: 09/920,182
Amdt. dated: 08/25/2004
Reply to Office Action of 08/20/2004

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) An acrylic foam-like adhesive tape comprising:
 - (a) a layer of an acrylic foam-like backing comprising
 - (i) from about 88% to about 92% of an acrylic polymer comprising:
 - from about 35% to about 45% of a first alkyl acrylate monomer having alkyl groups which contain from 4 to 12 carbon atoms,
 - from about 30% to about 40% of a second alkyl acrylate monomer having alkyl groups which contain from 4 to 12 carbon atoms,
 - from about 6% to about 10% of a first monoethylenically unsaturated polar copolymerizable monomer, and
 - from about 1% to about 2% of a second monoethylenically unsaturated polar copolymerizable monomer; and
 - (ii) from about 8% to about 12% of hollow glass microspheres dispersed evenly in said polymer; [[and]]
 - (b) ~~at least one~~ a layer of a heat-activated adhesive disposed on ~~at least~~ one side of the backing, said heat-activated adhesive comprising a polyamide, a polyester, a polyolefin, a urethane, a polyurethane, a block copolymer, an elastomer, a block copolymer rubber, or a combination of the foregoing materials; and
 - (c) a layer of pressure sensitive adhesive disposed on the other side of the backing opposite the layer of said heat-activated adhesive.
2. (Original) The acrylic foam-like adhesive tape according to claim 1, wherein the acrylic polymer includes from about 0.3% to about 0.5% of initiator.
3. (Original) The acrylic foam-like adhesive tape according to claim 2, wherein the initiator comprises at least one photoinitiator.
4. (Original) The acrylic foam-like adhesive tape according to claim 1, wherein the acrylic polymer includes from about 0.05% to about 0.07% of a crosslinker/ chain extender.

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5. (Original) The acrylic foam-like adhesive tape according to claim 4, wherein the crosslinker/chain extender is a multifunctional acrylate.
6. (Original) The acrylic foam-like adhesive tape according to claim 4, wherein the crosslinker/chain extender is a multi-ethylenically unsaturated copolymerizable monomer containing at least two carbon-carbon double bonds.
7. (Original) The acrylic foam-like adhesive tape according to claim 4, wherein: the crosslinker/chain extender is taken from the group consisting of ethylene glycol diacrylate, triethylene glycol diacrylate, 1,4-butanediol diacrylate, 1,6-hexanediol diacrylate, trimethylolpropane triacrylate, pentaerythritol triacrylate, and methacrylates and combinations thereof.
8. (Previously Presented) The acrylic foam-like adhesive tape according to claim 4, wherein: the crosslinker/chain extender is tetraethylene glycol diacrylate or its dimethacrylate.
9. (Original) The acrylic foam-like adhesive tape according to claim 1, wherein the acrylic polymer includes from about 1% to about 2% of a filler.
10. (Original) The acrylic foam-like adhesive tape according to claim 9, wherein the filler is a fumed silica.
11. (Original) The acrylic foam-like adhesive tape according to claim 9, wherein the filler is a surface modified silica.
12. (Original) The acrylic foam-like adhesive tape according to claim 1, wherein: the first alkyl acrylate monomer is isooctylacrylate, the second alkyl acrylate monomer is 2-ethylhexyl acrylate, the first monoethylenically unsaturated polar copolymerizable monomer is acrylic acid,

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the second monoethylenically unsaturated polar copolymerizable monomer is acrylamide, and

the hollow glass microspheres are borosilicate glass.

13. (Original) The acrylic foam-like adhesive tape according to claim 12, wherein the acrylic polymer further comprises:

from about 0.3% to about 0.5% of initiator,

from about 1% to about 2% of a filler, and

from about 0.05% to about 0.07% of a crosslinker/chain extender.

14. (Original) The acrylic foam-like adhesive tape according to claim 13, wherein the initiator comprises at least one photoinitiator.

15. (Original) The acrylic foam-like adhesive tape according to claim 14, wherein the photoinitiator is benzoin ethyl ether.

16. (Original) The acrylic foam-like adhesive tape according to claim 12, wherein the filler is fumed silica.

17. (Original) The acrylic foam-like adhesive tape according to claim 12, wherein the filler is a surfaced modified silica.

18. (Original) The acrylic foam-like adhesive tape according to claim 12, wherein the crosslinker/chain extender is 1,4 butanediol diacrylate.

19. (Original) The acrylic foam-like adhesive tape according to claim 12, wherein the acrylic foam-like backing comprises:

from about 40% to about 41% isooctylacrylate;

from about 36% to about 37% 2-ethylhexyl acrylate;

from about 8% to about 9% acrylic acid;

from about 1% to about 2% acrylamide; and

from about 10% to about 11% borosilicate glass.

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20. (Original) The acrylic foam-like adhesive tape according to claim 19, wherein the acrylic foam-like backing further comprises:

from about 0.35% to about 0.45% benzoin ethyl ether;
from about 1% to about 2% fumed silica; and
from about 0.055% to about 0.065% 1,4 butanediol diacrylate.

21. (Original) The acrylic foam-like tape according to claim 1, wherein the foam-like backing further comprises:

a sufficient amount of colorant to impart color to the adhesive tape.

22. (Cancelled)

23-41 (Cancelled)